PRODUCT INFORMATION PACKET

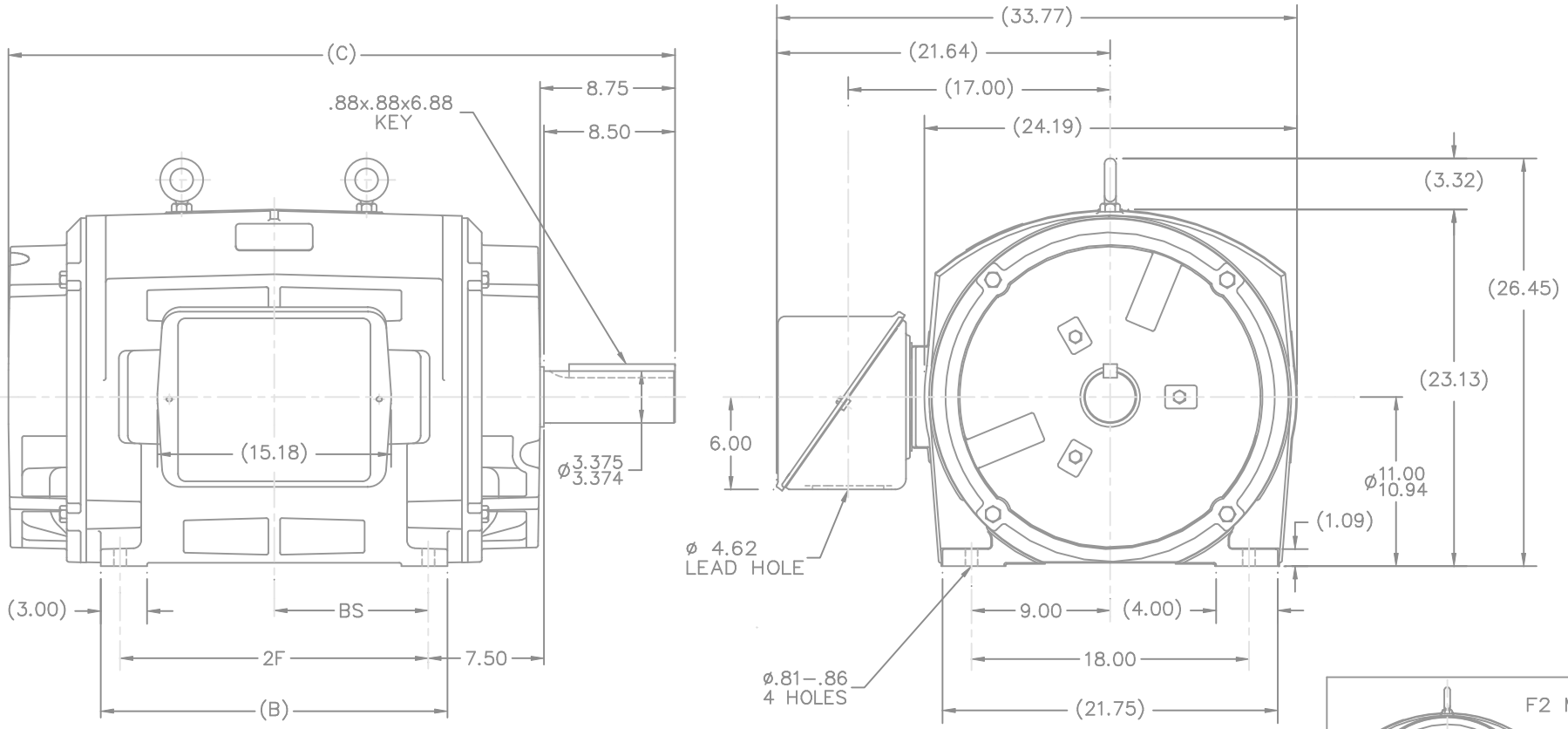
Model No: LM80169
Catalog No: LM80169
300 HP Fire Pump Motor, 3 phase, 1800 RPM, 400 V, 447T Frame, ODP
Fire Pump Motors

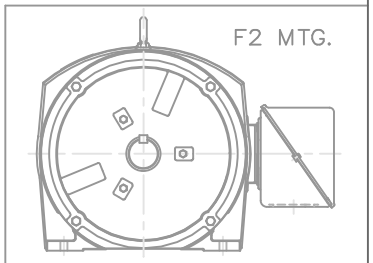
Nameplate Specifications

Output HP	300 Hp	Output KW	224.0 kW
Frequency	60 Hz	Voltage	400 V
Current	397.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	85.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	447T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6314
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.0161 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	43.25 in
Frame Length	24.39 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300BH	Outline Drawing	B-SS514252LN-2438





NOTES:

1. C.BOX CAN BE ROTATED IN 90° STEPS.
2. C.BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS
2438	447T	43.25	---	22.50	20.00	---	---	10.00
2938	449T	48.25	---	27.50	25.00	---	---	12.50

NO.	REVISION	BY & DATE	CHK
1	NEW DRAWING	DRS 11-20-2002	ML

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE OUTLINE – DR.PR. 447–449T FR.

MAT'L.

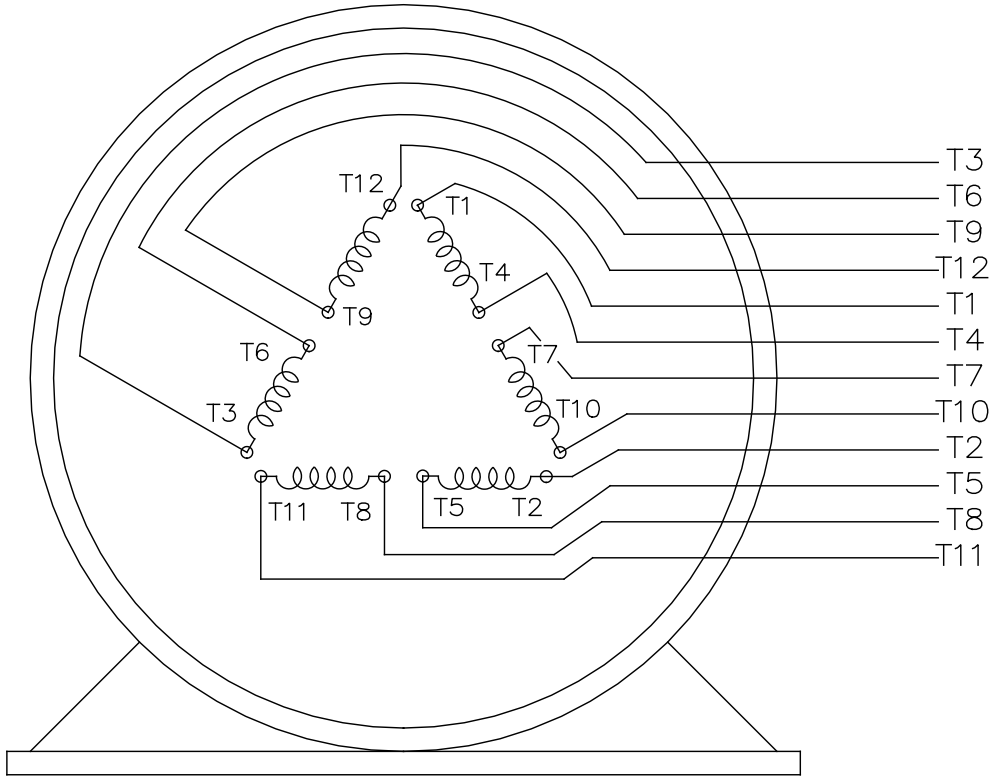
FINISH

DRAWN DRS 11-20-2002
CHK ML 11-20-2002
APPD GK 11-20-2002
SCALE 1=7
REF
FMF
PREV

RFP
CAD FILE SS514252LN
DIST WA–SB

SIZE	DRAWING NO.	PAGE OF	REV.
B	SS514252LN		1

EE7300BH



VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

				TOLERANCES UNLESS SPECIFIED		REGAL - BELOIT CORPORATION	DRAWN RJW 02–11–2005
				DEC.	INCHES		CHK ML 02–11–2005
				.X	±.1		APPD GK 02–11–2005
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE
D	CHANGED TO REGAL TITLE BLOCK ECO–0108299	WGJ 08/22/2016	EMH	.XXX	±.005	12 LEAD– SINGLE VOLTAGE	REF
1	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/2007	ML	.XXXX	±.0005	MAT'L.	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV

RFP 02–11–2005
DIST LB
CAD FILE ee7300bh

SIZE	DRAWING NO.	PAGE OF	REV.
A	EE7300BH		C

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300BH **CAT #:** LM80169
OUTLINE: B-SS514252LN-2438
WINDING: T447421 NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
300	224	1800	1780	447T	DP	TDN	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	400	397	PWS & YDRUN	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE
F.L. PF	85.5	3/4 LD PF	84.0	1/2 LD PF	78.0	94.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
885 LB-FT	2,300	1,130 LB-FT 128%	2,000 LB-FT 226%	50	

PRESSURE @ 3	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
82 dBA	91 dBA	55.0 LB-FT²	1000 LB-FT²	15 SEC.	1	2000 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSAVER

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6318	6314						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.008	0.006	0.074	0.074	1.948	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: NONE

DATE: 8/31/2018

Data Sheet

Date: 8/31/2018

LEESON

LM80169

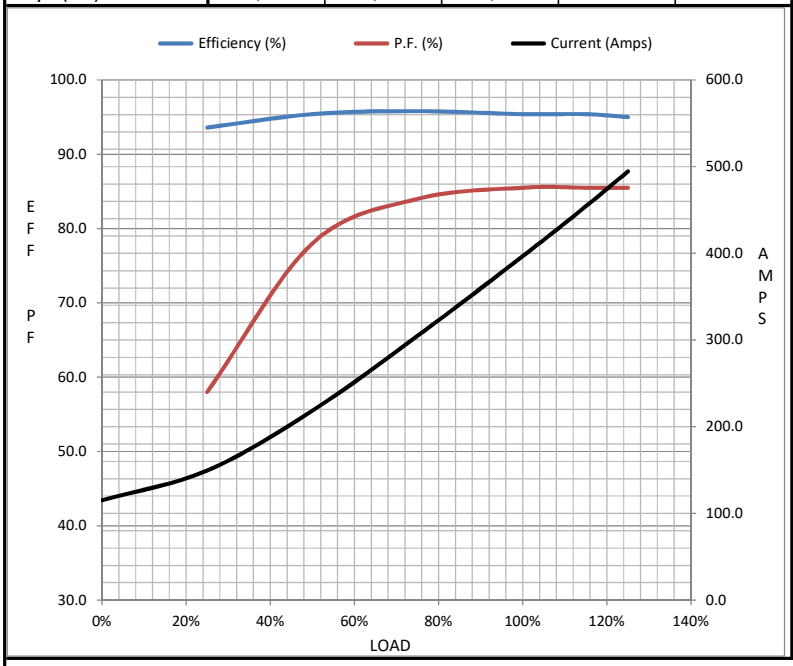
Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	115	150	219	305	397	454	495	2,300	
Torque (ft-lb)	0.00	219	440	661	885	1,018	1,108	1,130	
RPM	1800	1795	1790	1785	1780	1,778	1775	0	
Efficiency (%)		93.6	95.4	95.8	95.4	95.4	95.0		
P.F. (%)	5.0	58.0	78.0	84.0	85.5	85.5	85.5	26.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1780	1800
Current (Amps)	2,300	2,185	1,495	397	115
Torque (ft-lb)	1,130	1,000	2,000	885	0.00



Information Block

HP	300.0	
Sync. RPM	1800	
Frame	447	
Enclosure	DP	
Construction	TDN	
Voltage	400	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	50	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	55.0	Lb-Ft²
Ref Wdg	T447421 NONE	
Sound Pressure @ 1M	82	dBA
VFD Rating	NONE	
Outline Dwg	B-SS514252LN-2438	
Conn. Diag	A-EE7300BH	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0080	0.0060	0.0740	0.0740	1.9480

Speed -Torque Curve